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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,334	02/14/2002	Bryce Allen Curtis	AUS920011029US1	2002
35525	7590	02/23/2005.		
IBM CORP (YA) C/O YEE & ASSOCIATES PC P.O. BOX 802333 DALLAS, TX 75380			EXAMINER ROCHE, TRENTON J	
			ART UNIT 2124	PAPER NUMBER

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/076,334	Applicant(s) CURTIS, BRYCE ALLEN	
	Examiner Trent J Roche	Art Unit 2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 11-24 and 27-35 is/are rejected.
- 7) ☒ Claim(s) 9, 10, 25 and 26 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>02142002</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is responsive to communications filed 14 February 2002.
2. Claims 1-35 have been examined.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. The abstract of the disclosure is objected to because the length exceeds 150 words.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1, 2, 5, 6, 11-14, 17, 18, 21, 22, 27-30 and 33-35 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,301,708 to Gazdik et al., hereafter referred to as Gazdik.

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Per claim 1:

Gazdik discloses:

- a method of installation a program in a computing device (“A new method for installing...software...” in col. 3 line 29)
- initiating installation of a program on the computing device (“An installer processing engine...runs on a computer system...” in col. 4 lines 3-4)
- for each installation property used during installation of the program, storing the installation property in a fileset, and installing the fileset (“Each software component has associated therewith a unique component-specific data file...Each such data file contains the characteristics of the software component, as well as the commands to be executed for installation and unexecuted during uninstallation” in col. 3 lines 33-40)

substantially as claimed.

Per claim 2:

The rejection of claim 1 is incorporated, and further, Gazdik discloses generating a registry object for each installation property, and storing the registry object in a system product registry for the program as claimed (“add a registry key and value...” in col. 6 lines 9-10)

Per claim 5:

The rejection of claim 1 is incorporated, and further, Gazdik discloses the installation properties include user defined or installation program generated variables that are used during installation but do not directly represent items that need to be uninstalled as claimed (“allows the install program

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developer to specify whether a command is...exclusive to the install process...” in col. 6 lines 50-53)

Per claim 6:

The rejection of claim 5 is incorporated, and further, Gazdik discloses at least one of user selections from menus and typed-in information supplied by the user as claimed (“prompt the end user to provide a directory name and location; it may ask the user to identify those software components which he desired to install...” in col. 5 lines 12-14)

Per claim 11:

Gazdik discloses:

- a method of installation a program in a computing device such that other programs will have access to installation properties (“A new method for installing...software...” in col. 3 line 29)
- initiating installation of a program on the computing device (“An installer processing engine...runs on a computer system...” in col. 4 lines 3-4)
- for each installation property used during installation of the program, storing the installation property in a fileset (“Each software component has associated therewith a unique component-specific data file...Each such data file contains the characteristics of the software component, as well as the commands to be executed for installation and unexecuted during uninstallation” in col. 3 lines 33-40)
- generating a registry object for each installation property, and storing the registry object in a system product registry for the program, wherein other programs access the installation

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properties via the registry object in the system product registry (“add a registry key and value...” in col. 6 lines 9-10. Storing the key in the registry inherently makes it available to other programs via the registry.)

substantially as claimed.

Per claim 12:

The rejection of claim 11 is incorporated, and further, Gazdik discloses an uninstall program, the uninstall program generating a fileset and initializing parameters of the fileset based upon the installation properties in the registry object as claimed (Note at least col. 6 lines 1-22)

Per claim 13:

Gazdik discloses:

- a method of uninstalling a program (As no actual uninstallation appears to occur in the claim language, only the identification of properties and initialization of parameters, the preamble of the claim has not been given patentable weight.)
- generating a fileset (“installation information for a specific software component resides in a component persistent data file...” in col. 4 lines 18-19)
- identifying one or more installation properties for the program based on stored information that includes all of the installation properties used during installation of the program (“Each such data file contains the characteristics of the software component, as well as the commands to be executed for installation and unexecuted during uninstallation.” in col. 3 lines 37-40)

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- initializing parameters of the fileset based on the one or more installation properties “the install/uninstall processing engine need simply unexecuted the installation steps...” in col. 4 lines 25-26)

substantially as claimed.

Per claim 14:

The rejection of claim 13 is incorporated, and further, Gazdik discloses reading the installation property using a registry object as claimed (“Because Pcommand provides the method declaration for...::UnExecute()...the ::UnExecute() method is called during uninstallation...” in col. 6 lines 17-22)

Per claim 17:

Claim 17 is directed to a computer program product in a computer readable medium for performing the method of claim 1, and is rejected for the reasons set forth in connection with claim 1.

Per claim 18:

The rejection of claim 17 is incorporated, and further, note the rejection regarding claim 2.

Per claim 21:

The rejection of claim 17 is incorporated, and further, note the rejection regarding claim 5.

Per claim 22:

The rejection of claim 21 is incorporated, and further, note the rejection regarding claim 6.

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Per claim 27:

Claim 27 is directed to a computer program product in a computer readable medium for performing the method of claim 11, and is rejected for the reasons set forth in connection with claim 11.

Per claim 28:

The rejection of claim 27 is incorporated, and further, note the rejection regarding claim 12.

Per claim 29:

Claim 29 is directed to a computer program product in a computer readable medium for performing the method of claim 13, and is rejected for the reasons set forth in connection with claim 13.

Per claim 30:

The rejection of claim 29 is incorporated, and further, note the rejection regarding claim 14.

Per claim 33:

Claim 33 is directed to an apparatus for performing the method of claim 1, and is rejected for the reasons set forth in connection with claim 1.

Per claim 34:

Claim 34 is directed to an apparatus for performing the method of claim 11, and is rejected for the reasons set forth in connection with claim 11.

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Per claim 35:

Claim 35 is directed to an apparatus for performing the method of claim 13, and is rejected for the reasons set forth in connection with claim 13.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 3, 4, 7, 8, 15, 16, 19, 20, 23, 24, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,301,708 to Gazdik et al., hereafter referred to as Gazdik, in view of “Industrial Strength Java” by Cassady-Dorion et al., hereafter referred to as Cassady-Dorion.

Per claim 3:

The rejection of claim 1 is incorporated, and further, Gazdik discloses storing the installation property in a fileset. Gazdik does not explicitly disclose storing the installation property in a hashtable of the fileset. Cassady-Dorion disclose the use of storing information as a hashtable (“You can store large information sets in many ways, but the hash table data structure is one of the more popular” on page 210, section titled “Storing Information in a Hash Table.”) It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the hashtable storing methods disclosed by Cassady-Dorion with the installation and uninstallation system disclosed by Gazdik. This combination would be implemented by adding instructional code for

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creating hashables to the software-based system of Gazdik. One of ordinary skill in the art would be motivated to do this as it would allow a user to easily locate a specific part of a data set, as described on page 210 of Cassidy-Dorion.

Per claim 4:

The rejection of claim 3 is incorporated, and further, Gazdik discloses storing the data files on a storage medium. Gazdik does not disclose serializing the fileset including the hashtable, and storing the serialized fileset on a storage medium. Cassidy-Dorion discloses the use of object serialization and storing serialized objects on a storage medium. (“The serialization services take a data structure as input...and produce an encoded stream of bytes as output. This serial stream can then be written...to storage media, such as a hard drive” on page 472, section titled “Serializing Objects.”) It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the serialization services disclosed by Cassidy-Dorion with the installation and uninstallation system disclosed by Gazdik. This combination would be implemented by adding instructional code for performing object serialization to the software-based system of Gazdik. One of ordinary skill in the art would be motivated to do this as it would allow a user to add persistence to the data file objects, as disclosed on page 472 of Cassidy-Dorion.

Per claim 7:

The rejection of claim 4 is incorporated, and further, Gazdik discloses upon initiation of an uninstall program, the fileset is reinstantiated and the uninstall program access the installation properties to recreate an installation state (“installation information for a specific software component resides in a component persistent data file...” in col. 4 lines 18-19. Further, “Each such data file contains the

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characteristics of the software component, as well as the commands to be executed for installation and unexecuted during uninstallation.” in col. 3 lines 37-40). Gazdik does not explicitly disclose the fileset being serialized and stored in a hashtable, however, these limitations would be obvious as noted in the rejections of claims 3 and 4.

Per claim 8:

The rejection of claim 4 is incorporated, and further, Gazdik discloses initiating an uninstall application for uninstalling the program, reinstantiating the fileset, and customizing operation of the uninstall application based on the installation property in the fileset (“installation information for a specific software component resides in a component persistent data file...” in col. 4 lines 18-19. Further, “Each such data file contains the characteristics of the software component, as well as the commands to be executed for installation and unexecuted during uninstallation.” in col. 3 lines 37-40). Gazdik does not explicitly disclose the fileset being serialized and stored in a hashtable, however, these limitations would be obvious as noted in the rejections of claims 3 and 4.

Per claim 15:

The rejection of claim 13 is incorporated, and further, note the rejection regarding claim 7.

Per claim 16:

The rejection of claim 15 is incorporated, and further, note the rejection regarding claim 7.

Per claim 19:

The rejection of claim 17 is incorporated, and further, note the rejection regarding claim 3.

Per claim 20:

The rejection of claim 19 is incorporated, and further, note the rejection regarding claim 4.

Per claim 23:

The rejection of claim 20 is incorporated, and further, note the rejection regarding claim 7.

Per claim 24:

The rejection of claim 20 is incorporated, and further, note the rejection regarding claim 8.

Per claim 31:

The rejection of claim 29 is incorporated, and further, note the rejection regarding claim 7.

Per claim 32:

The rejection of claim 31 is incorporated, and further, note the rejection regarding claim 7.

Allowable Subject Matter

9. Claims 9, 10, 25 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trent J Roche whose telephone number is (571)272-3733. The examiner can normally be reached on Monday - Friday, 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571)272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Trent J Roche
Examiner
Art Unit 2124

TJR

Kakali Chaki

**KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
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